

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845376

Luminaire Tested: **SQ4P-WB-125U-075D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845376  
REPORT IS A COMBINATION OF REPORTS P700128 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-125U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

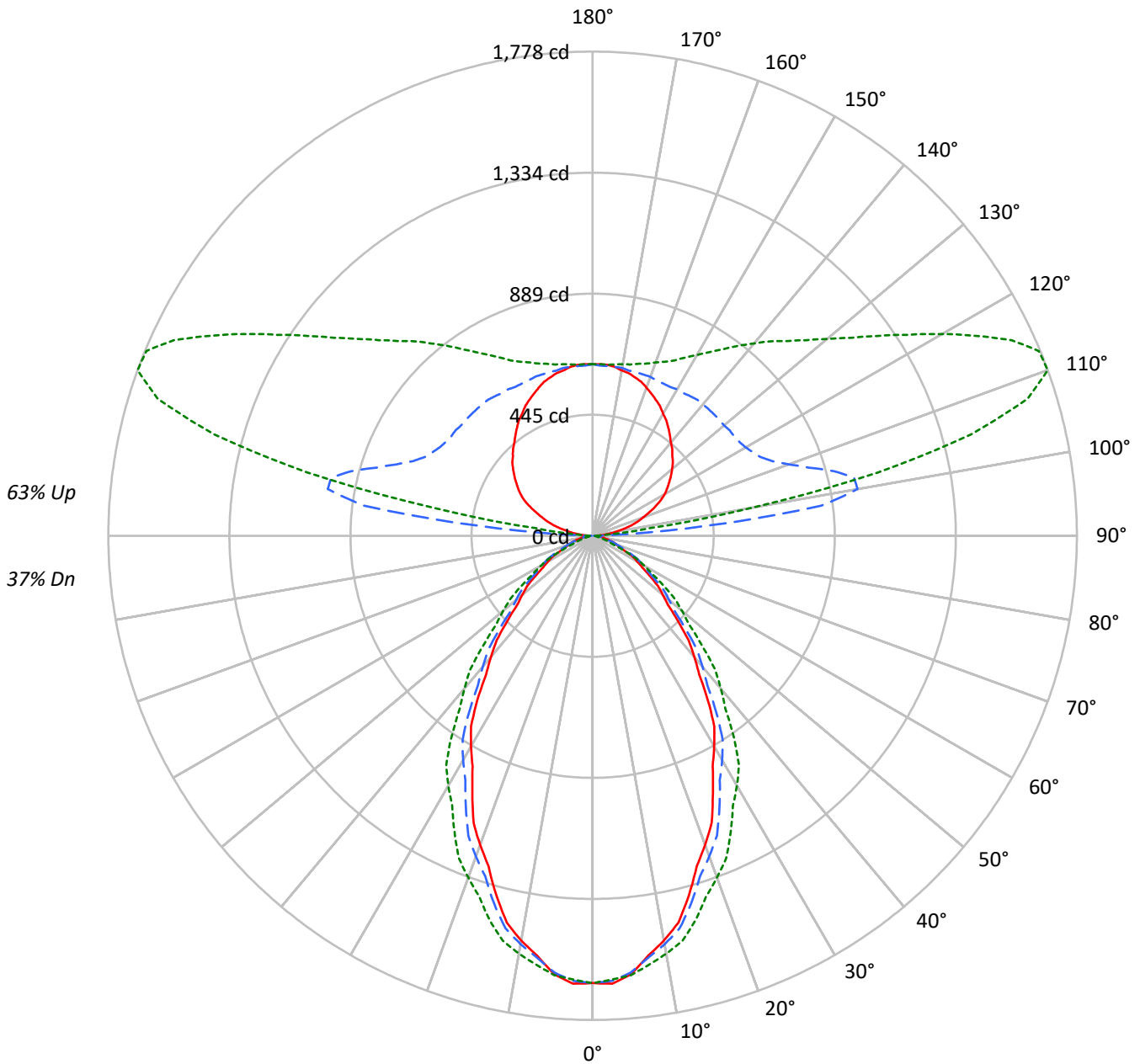
Lumens per Lamp: N/A  
Luminaire Lumens: 6485.3 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 59.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P845376

CATALOG NUMBER: SQ4P-WB-125U-075D-B40-1D-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P845376

CATALOG NUMBER: SQ4P-WB-125U-075D-B40-1D-UNV

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37																			
1	96	92	88	85	87	83	81	78	68	66	64	53	52	51	40	40	39	33																			
2	88	81	76	71	80	74	69	65	60	57	54	48	46	44	36	35	34	29																			
3	81	72	65	60	73	66	60	56	54	50	47	43	41	38	33	31	30	26																			
4	74	64	57	52	67	59	53	48	49	44	41	39	36	34	30	28	27	23																			
5	68	58	50	45	62	53	47	42	44	39	36	36	32	30	28	26	24	20																			
6	63	52	45	39	57	48	41	37	40	35	31	32	29	26	25	23	21	18																			
7	59	47	40	35	53	44	37	32	36	32	28	30	26	24	24	21	19	17																			
8	55	43	36	31	50	40	33	29	33	29	25	27	24	21	22	19	18	15																			
9	51	40	33	28	46	37	30	26	31	26	23	25	22	19	20	18	16	14																			
10	48	36	30	25	43	34	28	24	28	24	21	24	20	18	19	17	15	13																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15155	15155	15155
5°	14966	14912	15000
10°	14140	14268	14599
15°	13052	13357	13955
20°	11854	12298	13112
25°	10633	11211	12217
30°	9506	10128	11287
35°	8312	8913	10189
40°	6996	7553	8820
45°	5774	6272	7364
50°	4820	5255	6135
55°	4092	4509	5065
60°	3499	3910	4043
65°	2786	3288	2611
70°	2471	2568	1594
75°	2289	2082	977
80°	2104	1913	839
85°	1895	1768	688



TEST NUMBER: P845376

CATALOG NUMBER: SQ4P-WB-125U-075D-B40-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	2.3
10°-20°	391.9	6.0
20°-30°	507.6	7.8
30°-40°	497.1	7.7
40°-50°	380.5	5.9
50°-60°	253.5	3.9
60°-70°	138.4	2.1
70°-80°	57.7	0.9
80°-90°	17.8	0.3
90°-100°	250.8	3.9
100°-110°	872.7	13.5
110°-120°	845.4	13.0
120°-130°	663.2	10.2
130°-140°	524.9	8.1
140°-150°	405.1	6.2
150°-160°	290.4	4.5
160°-170°	177.6	2.7
170°-180°	60.1	0.9
0°-30°	1050.2	16.2
0°-40°	1547.2	23.9
0°-60°	2181.3	33.6
0°-90°	2395.1	36.9
90°-120°	1969.0	30.4
90°-150°	3562.1	54.9
90°-180°	4090.0	63.1
0°-180°	6485.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1616	1600	1610	1614	1620	150
15°	1366	1362	1398	1436	1461	382
25°	1044	1047	1101	1149	1200	480
35°	738	742	791	845	905	459
45°	442	451	481	517	564	345
55°	254	265	280	291	315	231
65°	128	138	151	132	120	133
75°	64	64	58	40	27	68
85°	18	18	17	11	6	20
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



TEST NUMBER: P845376

CATALOG NUMBER: SQ4P-WB-125U-075D-B40-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1642.6	1642.6	1642.6	1642.6	1642.6
2.5°	1646.6	1632.0	1635.8	1635.6	1631.0
5°	1616.0	1599.6	1610.1	1613.9	1619.6
7.5°	1555.9	1543.7	1562.8	1576.9	1588.3
10°	1509.3	1498.7	1523.0	1543.5	1558.3
12.5°	1455.1	1446.1	1476.4	1503.7	1523.2
15°	1366.5	1361.6	1398.4	1436.3	1461.0
17.5°	1271.9	1269.5	1311.5	1355.9	1387.4
20°	1207.3	1206.6	1252.6	1298.9	1335.5
22.5°	1142.1	1143.6	1192.0	1240.2	1282.0
25°	1044.5	1047.2	1101.3	1149.3	1200.1
27.5°	954.0	955.3	1011.1	1061.9	1116.1
30°	892.3	895.8	950.7	1003.2	1059.5
32.5°	830.7	834.8	888.4	942.6	1000.1
35°	738.0	741.6	791.3	844.7	904.6
37.5°	642.6	647.4	691.6	741.9	801.0
40°	580.9	588.0	627.1	674.6	732.3
42.5°	521.5	530.3	566.5	611.6	663.6
45°	442.5	451.0	480.7	517.1	564.4
47.5°	374.4	384.2	407.1	438.4	478.7
50°	335.8	345.1	366.1	389.3	427.4
52.5°	301.9	311.0	329.8	347.7	380.2
55°	254.4	264.9	280.3	291.1	314.9
57.5°	215.5	225.7	237.9	242.7	257.2
60°	189.6	200.9	211.9	211.3	219.1
62.5°	165.9	175.6	186.5	178.8	179.3
65°	127.6	138.2	150.6	131.7	119.6
67.5°	103.1	105.2	118.1	91.9	77.5
70°	91.6	91.6	95.2	71.1	59.1
72.5°	80.6	80.6	77.3	57.8	45.2
75°	64.2	64.2	58.4	40.1	27.4
77.5°	49.4	48.9	44.7	29.8	19.9
80°	39.6	39.6	36.0	23.6	15.8
82.5°	31.0	31.0	27.9	18.4	11.7
85°	17.9	17.9	16.7	10.8	6.5
87.5°	6.4	6.4	5.7	3.4	2.9
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



TEST NUMBER: P845376

CATALOG NUMBER: SQ4P-WB-125U-075D-B40-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)